

Ehsan Al-Agtash

Saratoga, CA 95070 | ealagtash@gmail.com | (831)251-1016 | [linkedin.com/in/ehsan-al-agtash](https://www.linkedin.com/in/ehsan-al-agtash)

EDUCATION

Bachelor Of Science in Mechanical Engineering

Expected Graduation: Fall 2022

San Jose State University, San Jose, CA, 3.1 GPA

SKILLS

Software: Solidworks, Fusion 360, Visual Studio, Eclipse, Xcode, Circuit Python, Microsoft Office Suite, Microsoft Teams, LabVIEW, MATLAB

Programming Languages: C++, Java, Python, Assembly

Test Equipment: linear, angular, optical, mass, force, torque, hydraulic and pneumatic pressure and flow, temperature, environmental, high/low frequency AC, DC, resistance

EXPERIENCE

Spartan Racing Combustion Team Formula SAE , SJSU— Team member

Aug 2020 - Present

- Research of exhaust system design for optimum flow and sounds control
 - Developing & researching transmission electric shifter solenoid for decreasing shifting time
 - Complete assembling & disassembling of various powertrain systems
 - Strengthen the team and support in any way needed
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PROJECTS

Automatic Window Opener, SJSU — Team lead

Jan 2021 - May 2021

- Researched motors to open windows and communicate with various sensors
- Implementing communications between sensors and motors using a microcontroller (nRF)
- Designed and worked to achieve a reliable system
- Overlook software design & quality check

Drag Reduction System (DRS), SJSU — Team member

Jan 2021 - Present

- Provide different types of actuators (electric, hydraulic, pneumatic, solenoid)
 - Evaluate each actuation system and provide a linkage design
 - Decrease lap time and design a fail-safe mechanism
 - I2pro analysis for DRS open and close positions
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ACTIVITIES

Santa Clara Valley Medical Center, Santa Clara—Information Technology Service Desk

May 2018 - Dec 2018

- Assisted patients with requests and demands
- Assisted with delivering food to patients